

29. (Amended) An isolated polypeptide selected from the group consisting of:

- E²
- a) a polypeptide comprising the amino acid sequence of SEQ ID NO:3;
- b) a polypeptide comprising the amino acid sequence of SEQ ID NO:7;
- c) a polypeptide comprising the amino acid sequence of SEQ ID NO:9;
- Sub
G¹
- d) a polypeptide comprising the amino acid sequence encoded by the cDNA of the clone contained in ATCC Accession No. 97880;
- e) a polypeptide comprising the amino acid sequence encoded by the cDNA of the clone contained in ATCC Accession No. 97881;
- f) a polypeptide comprising the amino acid sequence encoded by the cDNA of the clone contained in NRRL Deposit No. B-21416;
- g) a polypeptide comprising at least 542 [15] contiguous amino acids of SEQ ID NO:3;
- h) a polypeptide comprising at least 542 [15] contiguous amino acids of SEQ ID NO:7;
- i) a polypeptide comprising at least 542 [15] contiguous amino acids of SEQ ID NO:9.

E³

Sub
G²

37. (Amended) The isolated polypeptide of claim 29 wherein the polypeptide comprises at least 542 [15] contiguous amino acids of SEQ ID NO:3.

E3
cont

38. (Amended) The isolated polypeptide of claim 29 wherein the polypeptide comprises at least 542 [15] contiguous amino acids of SEQ ID NO:7.

39. (Amended) The isolated polypeptide of claim 29 wherein the polypeptide comprises at least 542 [15] contiguous amino acids of SEQ ID NO:9.

40. (Amended) An isolated polypeptide comprising 542 amino acids, the polypeptide being encoded by a nucleic acid molecule that hybridizes to the nucleic acid molecule of SEQ ID NO:2 or its complement at 68°C in 0.1X SSC, 0.1% SDS.

E4

41. (Amended) An isolated polypeptide comprising 542 amino acids, the polypeptide being encoded by a nucleic acid molecule that hybridizes to the nucleic acid molecule of SEQ ID NO:6 or its complement at 68°C in 0.1X SSC, 0.1% SDS.

42. (Amended) An isolated polypeptide comprising 542 amino acids, the polypeptide being encoded by a nucleic acid molecule that hybridizes to the nucleic acid molecule of SEQ ID NO:8 or its complement at 68°C in 0.1X SSC, 0.1% SDS.

43. (Amended) An isolated polypeptide selected from the group consisting of:

a) a polypeptide comprising at least 542 [15] contiguous amino acids encoded by a nucleic acid molecule that

hybridizes to the nucleic acid molecule of SEQ ID NO:2 or its complement at 68°C in 0.1X SSC, 0.1% SDS;

b) a polypeptide comprising at least 542 [15] contiguous amino acids encoded by a nucleic acid molecule that hybridizes to the nucleic acid molecule of SEQ ID NO:6 or its complement at 68°C in 0.1X SSC, 0.1% SDS;

c) a polypeptide comprising at least 542 [15] contiguous amino acids encoded by a nucleic acid molecule that hybridizes to the nucleic acid molecule of SEQ ID NO:8 or its complement at 68°C in 0.1X SSC, 0.1% SDS;

d) a polypeptide comprising at least 542 [15] contiguous amino acids encoded by a nucleic acid molecule that hybridizes to a nucleic acid molecule having the sequence of the cDNA of the clone contained in NRRL Deposit No. B-21426 at 68°C in 0.1X SSC, 0.1% SDS;

e) a polypeptide comprising at least 542 [15] contiguous amino acids encoded by a nucleic acid molecule that hybridizes to a nucleic acid molecule having the sequence of the cDNA of the clone contained in ATCC Accession No. 97880 at 68°C in 0.1X SSC, 0.1% SDS; and

f) a polypeptide comprising at least 542 [15] contiguous amino acids encoded by a nucleic acid molecule that hybridizes to a nucleic acid molecule having the sequence of the cDNA of the clone contained in ATCC Accession No. 97881 at 68°C in 0.1X SSC, 0.1% SDS.

45. (Amended) The isolated polypeptide of claim 43 wherein the polypeptide comprises at least 542 [15] contiguous amino acids and is encoded by a nucleic acid molecule that hybridizes to the nucleic acid molecule of SEQ ID NO:2 or its complement at 68°C in 0.1X SSC, 0.1% SDS.

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46. (Amended) The isolated polypeptide of claim 43 wherein the polypeptide comprises at least 542 [15] contiguous amino acids and is encoded by a nucleic acid molecule that hybridizes to the nucleic acid molecule of SEQ ID NO:6 or its complement at 68°C in 0.1X SSC, 0.1% SDS.

Am 64
47. (Amended) The isolated polypeptide of claim 43 wherein the polypeptide comprises at least 542 [15] contiguous amino acids and is encoded by a nucleic acid molecule that hybridizes to the nucleic acid molecule of SEQ ID NO:8 or its complement at 68°C in 0.1X SSC, 0.1% SDS.

48. (Amended) The isolated polypeptide of claim 43 wherein the polypeptide comprises at least 542 [15] contiguous amino acids and is encoded by a nucleic acid molecule that hybridizes to a nucleic acid molecule having the sequence of the cDNA of the clone contained in NRRL Deposit No. B-21416 at 68°C in 0.1X SSC, 0.1% SDS.

49. (Amended) The isolated polypeptide of claim 43 wherein the polypeptide comprises at least 542 [15] contiguous

amino acids and is encoded by a nucleic acid molecule that hybridizes to a nucleic acid molecule having the sequence of the cDNA of the clone contained in ATCC Accession No. 97880 at 68°C in 0.1X SSC, 0.1% SDS.

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cont
And
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50. (Amended) The isolated polypeptide of claim 43 wherein the polypeptide comprises at least 542 [15] contiguous amino acids and is encoded by a nucleic acid molecule that hybridizes to a nucleic acid molecule having the sequence of the cDNA of the clone contained in ATCC Accession No. 97881 at 68°C in 0.1X SSC, 0.1% SDS.

51. (Amended) An isolated polypeptide encoded by a nucleic acid molecule that comprises at least 74 [20] nucleotides and hybridizes to the nucleic acid molecule of SEQ ID NO:2 or its complement at 42°C in 0.2X SSC, 0.1% SDS.

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And
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52. (Amended) An isolated polypeptide encoded by a nucleic acid molecule that comprises at least 74 [20] nucleotides and hybridizes to the nucleic acid molecule of SEQ ID NO:6 or its complement at 42°C in 0.2X SSC, 0.1% SDS.

53. (Amended) An isolated polypeptide encoded by a nucleic acid molecule that comprises at least 74 [20] nucleotides and hybridizes to the nucleic acid molecule of SEQ ID NO:8 or its complement at 42°C in 0.2X SSC, 0.1% SDS.

54. (Amended) An isolated polypeptide encoded by a nucleic acid molecule that comprises at least 74 [20] nucleotides and hybridizes to a nucleic acid molecule having the sequence of the cDNA of the clone contained in NRRL Deposit No. B-21416 at 42°C in 0.2X SSC, 0.1% SDS.

E6
cont
55. (Amended) An isolated polypeptide encoded by a nucleic acid molecule that comprises at least 74 [20] nucleotides and hybridizes to a nucleic acid molecule having the sequence of the cDNA of the clone contained in ATCC Accession No. 97880 at 42°C in 0.2X SSC, 0.1% SDS.

56. (Amended) An isolated polypeptide encoded by a nucleic acid molecule that comprises at least 74 [20] nucleotides and hybridizes to a nucleic acid molecule having the sequence of the cDNA of the clone contained in ATCC Accession No. 97881 at 42°C in 0.2X SSC, 0.1% SDS.

Add new claims 57-68

E7
--57. An isolated protein comprising an amino acid sequence encoded by a nucleic acid molecule that hybridizes to the complement of a nucleic acid molecule consisting of SEQ ID NO:8 at 42°C in 0.2X SSC, 0.1% SDS and has the sequence of a naturally-occurring mRNA present in a human melanocyte.

58. An isolated protein comprising an amino acid sequence encoded by a nucleic acid molecule that hybridizes to

the complement of a nucleic acid molecule consisting of SEQ ID NO:8 at 68°C in 0.1X SSC, 0.1% SDS and has the sequence of a naturally-occurring mRNA present in a human melanocyte.

59. An isolated protein comprising an amino acid sequence encoded by a nucleic acid molecule that hybridizes to the complement of a nucleic acid molecule consisting of SEQ ID NO:6 at 42°C in 0.2X SSC, 0.1% SDS and has the sequence of a naturally-occurring mRNA present in a human melanocyte.

60. An isolated protein comprising an amino acid sequence encoded by a nucleic acid molecule that hybridizes to the complement of a nucleic acid molecule consisting of SEQ ID NO:6 at 68°C in 0.1X SSC, 0.1% SDS and has the sequence of a naturally-occurring mRNA present in a human melanocyte.

61. An isolated protein comprising an amino acid sequence encoded by a nucleic acid molecule that hybridizes to the complement of a nucleic acid molecule consisting of SEQ ID NO:2 at 42°C in 0.2X SSC, 0.1% SDS and has the sequence of a naturally-occurring mRNA present in a murine melanocyte.

62. An isolated protein comprising an amino acid sequence encoded by a nucleic acid molecule that hybridizes to the complement of a nucleic acid molecule consisting of SEQ ID NO:2 at 68°C in 0.1X SSC, 0.1% SDS and has the sequence of a naturally-occurring mRNA present in a murine melanocyte.

63. An isolated polypeptide comprising an amino acid sequence which is at least 94.4% identical to the amino acid sequence of SEQ ID NO:9.

64. An isolated polypeptide comprising an amino acid sequence which is at least 94.4% identical to the amino acid sequence of SEQ ID NO:7.

65. An isolated polypeptide comprising an amino acid sequence which is at least 94.4% identical to the amino acid sequence of SEQ ID NO:3.

66. An isolated polypeptide which is encoded by a nucleic acid molecule comprising a nucleotide sequence which is at least 86% identical to the nucleotide sequence of SEQ ID NO:8.

67. An isolated polypeptide which is encoded by a nucleic acid molecule comprising a nucleotide sequence which is at least 86% identical to the nucleotide sequence of SEQ ID NO:6.

68. An isolated polypeptide which is encoded by a nucleic acid molecule comprising a nucleotide sequence which is at least 86% identical to the nucleotide sequence of SEQ ID NO:2.--